EXPERIMENT STATION

AMERICAN

CHEMICAL JOURNAL

IRA REMSEN.
EDITOR

CHARLES A. ROUILLER
ASSISTANT EDITOR

VOL. XLVIII.—JULY–DECEMBER, 1912

BALTIMORE: THE EDITOR

ESCHENBACH PRINTING COMPANY, PRINTERS,
EASTON, PA.

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EXPERIM... ...Y.

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2 II

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2 III

$C_2HO_2Cl_3$. Trichloromethanecarboxylic acid. *Wightman* and *Jones*..... 327
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C_3-GROUP

3 II

$C_3H_4O_2$. Ethanecarboxylic acid. *Wightman* and *Jones*..... 329

3 III

$C_3H_3O_2N$. Cyanomethanecarboxylic acid. *Wightman* and *Jones*. 328

3 IV

$C_3H_5O_3NS$. α-Hydroxyimino - β - mercaptoethane - α - carboxylic acid. *Johnson* and *Shepard*..... 288

C_4-GROUP

4 II

$C_4H_4O_4$. α,β-Dihydroxyethane-α,β-dicarboxylic acid. *Wightman* and *Jones*..... 334
$C_4H_4O_3$. α-Hydroxy-α-methylethane-α-carboxylic acid. *Wightman* and *Jones*..... 331

4 III

$C_4H_4O_4Br_2$. α,β-Dibromoethane-α,β-dicarboxylic acid. *Springer* and *Jones*..... 432

$C_4H_3O_4Br$. α-Bromoethane-α,β-dicarboxylic acid. *Springer* and *Jones*..... 431

$C_4H_6O_4S$. Di[carboxymethyl]sulphide. *Wightman* and *Jones*... 335

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C_5-GROUP

5 I

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5 II

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$C_5H_6O_3$. γ-Ketobutane-α-carboxylic acid. *Wightman* and *Jones*. 330

$C_5H_6O_4$. (1) Propane-α,α-dicarboxylic acid. *Springer* and *Jones*. 422

(2) α-Methylethane-α,α-dicarboxylic acid. *Springer* and *Jones*..... 427

$C_5H_{10}O_2$. β-Methylpropane-α-carboxylic acid. *Wightman* and *Jones*..... 332

5 III

$C_5H_6O_4N_2$. 2,5-Diketotetrahydro-1,3-diazole-4-acetic acid (malyureidic acid). *Johnson* and *Guest*..... 109

$C_5H_7O_2N_3$. 2 - Hydroxyimino - 6 - keto - 4 - methyl - 1,2,3,6 - tetrahydro - 1,3 - diazine. + $\frac{1}{2}H_2O$. *Johnson* and *Shepard*.. 287

5 IV

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C_6-GROUP

6 I

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6 II

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6 III

$C_6H_3O_9N_3$. 4,6-Dinitro-2-amino-1-hydroxybenzene. *Springer* and *Jones*..... 439

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6 IV

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C_7-GROUP

7 II

$C_7H_4O_7$. 3-Hydroxy-1,4-pyrone-2,6-dicarboxylic acid (meconic acid). *Wightman* and *Jones*..... 337
$C_7H_6O_3$. (1) 2-Hydroxybenzene-1-carboxylic acid. *Springer* and *Jones*..... 434
(2) 3-Hydroxybenzene-1-carboxylic acid. *Wightman* and *Jones*..... 342
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7 III

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7 IV

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C_8-GROUP

8 II

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$C_8H_8O_3$. Phenylmethanecarboxylic acid. *Springer* and *Jones*.. 442
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8 III

$C_8H_2O_4Cl_4$. 3,4,5,6 - Tetrachlorobenzene - 1,2 - dicarboxylic acid. *Wightman* and *Jones*..... 349
$C_8H_4O_4Cl_2$. 3,6-Dichlorobenzene-1,2-dicarboxylic acid. *Wightman* and *Jones*..... 348
$C_8H_8O_5S$. 2-Methylbenzene-1-carboxylic-4-sulphonic acid. NH_4, $\frac{1}{2}Ba + H_2O$. *Nowell*..... 227
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8 IV

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$C_8H_4O_3NCl_4$. Lactone of 3,4,5,6-tetrachloro-2-hydroxymethylaminobenzene-1-carboxylic acid. *Orndorff* and *Nichols*..... 480
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$C_8H_6O_3NS$. Chloride of 1-cyano-2-methylbenzene-4-sulphonic acid. *Nowell*..... 225
$C_8H_7O_3N_2S$. Amide of 1-cyano-2-methylbenzene-4-sulphonic acid. *Nowell*..... 225
$C_8H_8O_4N_2S$. 2 - [β - Keto - β - carboxyethyl]mercapto - 6 - keto - 4-methyl-1,6-dihydro-1,3-diazine. *Johnson* and *Shepard*..... 286
$C_8H_9O_4NS$. (1) 1-Amide of 2-methylbenzene-1-carboxylic-4-sulphonic acid. NH_4, $\frac{1}{2}Ba + H_2O$. *Nowell*..... 230
(2) 4-Amide of 2-methylbenzene-1-carboxylic-4-sulphonic acid. $K + \frac{1}{2}H_2O$, $NH_4 + H_2O$. *Nowell*..... 226
$C_8H_9O_4N_3S$. 2 - [β - Carboxy - β - hydroxyiminoethyl]mercapto - 6 - keto - 4 - methyl - 1,6 - dihydro - 1,3 - diazine. *Johnson* and *Shepard*..... 289

$C_9H_{10}O_3N_2S$. 2 - [β - Ketopropyl]mercapto - 6 - keto - 4 - methyl - 1,6-dihydro-1,3-diazine. *Johnson* and *Moran* 314
$C_9H_{11}O_3N_2S$. 2 - [β - Hydroxyiminopropyl]mercapto - 6 - keto - 1,6-dihydro-1,3-diazine. *Johnson* and *Moran* 316

C_9-GROUP

9 II

$C_9H_6O_2$. β-Phenylethin-α-carboxylic acid. *Springer* and *Jones* .. 433
$C_9H_8O_2$. β-Phenylethene-α-carboxylic acid. *Springer* and *Jones*. 441
$C_9H_8O_3$. β - [2 - Hydroxyphenyl]ethene - α - carboxylic acid. *Springer* and *Jones* 441
$C_9H_8O_4$. Acetate of 2 - hydroxybenzene - 1 - carboxylic acid. *Springer* and *Jones* 435
$C_9H_{10}O_2$. β-Phenylethane-α-carboxylic acid. *Springer* and *Jones*. 440
$C_9H_{14}O_4$. α-Propylbutane-α,α-dicarboxylic acid. *Springer* and *Jones* 430

9 IV

$C_9H_5O_2N_2Cl_4$. 3,4,5,6 - Tetrachloro - 2 - cyanomethylaminobenzene-1-carboxylic acid. *Orndorff* and *Nichols* 481
$C_9H_5O_4NCl_4$. (1) 3,4,5,6 - Tetrachlorobenzene - 1 - carboxylic - 2 - aminoacetic acid. + H_2O. *Orndorff* and *Nichols* 483
(2) Lactone of 3,4,5,6-tetrachloro-2-methoxyaminodihydroxymethylbenzene-1-carboxylic acid. *Orndorff* and *Nichols* 492
$C_9H_8O_6N_2S$. 2 - [β - Keto - α,β - dicarboxyethyl]mercapto - 6 - keto-4-methyl-1,6-dihydro-1,3-diazine. *Johnson* and *Shepard*. 286
$C_9H_8O_6N_2S$. 2 - [α,β - Dicarboxy - β - hydroxyiminoethyl]mercapto - 6 - keto - 4 - methyl - 1,6 - dihydro - 1,3 - diazine. Na_2. *Johnson* and *Shepard* 290

C_{10}-GROUP

10 II

$C_{10}H_{10}O_4$. β-Phenylethane-α,α-dicarboxylic acid. *Springer* and *Jones* 426
$C_{10}H_{14}O$. 3 - Methyl - 6 - [α - methylethyl] - 1 - hydroxybenzene (thymol). *Seidell* 453
$C_{10}H_{16}O_4$. 1,1,2 - Trimethyltetrahydro - R - pentene - 2,5 - dicarboxylic acid (camphoric acid). *Wightman* and *Jones* 349

10 III

$C_{10}H_{11}O_4N$. Acetate of α-hydroxyamino-α-keto-β-phenylethane. *Jones* 10

10 IV

$C_{10}H_5O_4NCl_4$. Lactone of 3,4,5,6-tetrachloro-2-acetoxyiminohydroxymethylbenzene-1-carboxylic acid. *Orndorff* and *Nichols* 498
$C_{10}H_5O_2NCl_4$. 4,5,6,7 - Tetrachloro - 3 - hydroxy - 1 - acetyl - 1 - benzazole. *Orndorff* and *Nichols* 485

$C_{10}H_5O_2NCl_4$. Lactone of 3,4,5,6-tetrachloro-2-hydroxymethyl-acetylaminobenzene-1-carboxylic acid. *Orndorff* and *Nichols*. 481

$C_{10}H_9O_3NS$. 4-Aminonaphthalene-1-sulphonic acid. *Springer* and *Jones*. 443

C_{11}-GROUP

11 III

$C_{11}H_{13}O_3N$. Propionate of α-hydroxyamino-α-keto-β-phenylethane. *Jones*. 11

11 IV

$C_{11}H_5O_4NCl_4$. 4,5,6,7-Tetrachloro-3-hydroxy-1-acetyl-1 benzazole-2-carboxylic acid. Ag + H_2O. *Orndorff* and *Nichols*. 486

$C_{11}H_9O_3N_2Cl$. 5-Phenoxy-2,6-diketo-4-chloromethyl-1,2,3,6-tetrahydro-1,3-diazine. *Johnson* and *Hill*. 303

$C_{11}H_{10}O_3N_2S$. 5-Phenoxy-2,6-diketo-4-mercaptomethyl-1,2,3,6-tetrahydro-1,3-diazine. *Johnson* and *Hill*. 304

C_{12}-GROUP

12 II

$C_{12}H_{22}O_{11}$. Sucrose. *Morse, Holland, Myers, Cash* and *Zinn*. 29

12 III

$C_{12}H_{15}O_3N$. (1) Butyrate of α-hydroxyamino-α-keto-β-phenylethane. *Jones*. 11

(2) Isobutyrate of α-hydroxyamino-α-keto-β-phenylethane. *Jones*. 11

12 IV

$C_{12}H_7O_3NCl_4$. 4,5,6,7-Tetrachloro-1,3-diacetyl-1-benzazole. *Orndorff* and *Nichols*. 485

C_{13}-GROUP

13 II

$C_{13}H_{14}O_2$. Methyl ester of ε-phenyl-β,δ-pentadiene-β-carboxylic acid. *Reimer* and *Reynolds*. 206

13 IV

$C_{13}H_{12}O_2N_2S$. 2-[β-Keto-β-phenylethyl]mercapto-6-keto-4-methyl-1,6-dihydro-1,3-diazine. Na (p. 314). *Johnson* and *Moran*. 312

$C_{13}H_{13}O_2N_3S$. 2-[β-Hydroxyimino-β-phenylethyl]mercapto-6-keto-4-methyl-1,6-dihydro-1,3-diazine. HCl. *Johnson* and *Moran*. 315

$C_{13}H_{16}O_6N_2S$. Diethyl ester of 2-[β-keto-α,β-dicarboxyethyl]mercapto-6-keto-4-methyl-1,6-dihydro-1,3-diazine. *Johnson* and *Shepard*. 284

C_{14}-GROUP

14 II

$C_{14}H_{12}O_3$. Hydroxydiphenylmethanecarboxylic acid. *Wightman* and *Jones*..... 336

C_{15}-GROUP

15 III

$C_{15}H_{13}O_3N$. Benzoate of α-hydroxyamino-α-keto-β-phenylethane. K, Na, Ag. *Jones*..... 7

15 IV

$C_{15}H_{11}O_2N_3Cl_4$. 3,4,5,6 - Tetrachloro - 4′ - dimethylaminoazobenzene-2-carboxylic acid. *Orndorff* and *Nichols*..... 478

C_{16}-GROUP

16 II

$C_{16}H_{22}O$. γ - Hydroxy-δ-methyl-γ-ethyl-η-phenyl-δ,ζ- heptadiene. *Reimer* and *Reynolds*..... 222

16 IV

$C_{16}H_2O_2N_2Cl_8$. 4,5,6,7,4′,5′,6′,7′-Octochloroindigo. *Orndorff* and *Nichols*..... 489

C_{17}-GROUP

17 II

$C_{17}H_{16}O_3$. γ - Keto - β - methyl - α,γ - diphenylpropane - α - carboxylic acids, isomeric. *Reimer* and *Reynolds*..... 216, 219

17 III

$C_{17}H_{14}O_4N_2$. 5 - Phenoxy - 2,6 - diketo - 4 - phenoxymethyl - 1,2,3,6-tetrahydro-1,3-diazine. *Johnson* and *Hill*..... 303

17 IV

$C_{17}H_{14}O_3N_2S$. 5 - Phenoxy - 6 - keto - 2 - thio - 4 - phenoxymethyl-1,2,3,6-tetrahydro-1,3-diazine. *Johnson* and *Hill*..... 302

C_{18}-GROUP

18 II

$C_{18}H_{18}O_3$. Methyl ester of γ-keto-β-methyl-α,γ-diphenylpropane-α-carboxylic acid. *Reimer* and *Reynolds*..... 216

$C_{18}H_{18}O_5$. Ethyl ester of α,γ-diphenoxy-β-ketopropane-α-carboxylic acid. Na. *Johnson* and *Hill*..... 301

C_{19}-GROUP

19 IV

$C_{19}H_{18}ON_4S$. 2 - [β - Phenylhydrazone - β - phenylethyl]mercapto-6 - keto - 4 - methyl - 1,6 - dihydro - 1,3 - diazine. *Johnson* and *Moran*..... 317

$C_{19}H_{18}O_3N_2S$. 5 - Phenoxy - 2 - ethylmercapto - 6 - keto - 4 - phenoxymethyl-1,6-dihydro-1,3-diazine. *Johnson* and *Hill*..... 302

C_{21}-GROUP

21 IV

$C_{21}H_{18}O_3N_2S$. 6 - [β - Keto - β - phenylethyl] ether of 6 - hydroxy - 2 - [β - keto - β - phenylethyl]mercapto - 4 - methyl - 1,3 - diazine. *Johnson* and *Moran*..... 312

C_{23}-GROUP

23 II

$C_{23}H_{20}O_2$. Lactone of γ-hydroxy-β-methyl-α,γ,γ-triphenylpropane-α-carboxylic acid. *Reimer* and *Reynolds*..... 214

C_{24}-GROUP

24 II

$C_{24}H_{22}O$. ε - Keto - δ - methyl - α,γ,ε - triphenyl - α - pentenes, isomeric. *Reimer* and *Reynolds*..... 212, 217

24 III

$C_{24}H_{22}OBr_2$. α,β - Dibromo - ε - keto - δ - methyl - α,γ,ε - triphenylpentane. *Reimer* and *Reynolds*..... 214

C_{25}-GROUP

25 III

$C_{25}H_{18}O_4N_2$. 5 - Naphthoxy - 2,6 - diketo - 4 - naphthoxymethyl - 1,2,3,6 - tetrahydro - 1,3 - diazine. *Johnson* and *Hill*..... 306

25 IV

$C_{25}H_{18}O_3N_2S$. 5 - Naphthoxy - 6 - keto - 2 - thio - 4 - naphthoxymethyl-1,2,3,6-tetrahydro-1,3-diazine. *Johnson* and *Hill*..... 305

C_{26}-GROUP

26 I

$C_{26}H_{24}$. δ - Methyl - ε - phenylmethyl - α,ζ - diphenyl - α,γ,ε - hexatriene. *Reimer* and *Reynolds*..... 219

26 II

$C_{26}H_{22}O_5$. Ethyl ester of α,γ-dinaphthoxy-β-ketopropane-α-carboxylic acid. Na. *Johnson* and *Hill*..... 305

$C_{26}H_{26}O$. ε - Keto - δ - methyl - γ -phenylmethyl - α,ζ - diphenyl - α-hexene. *Reimer* and *Reynolds*..... 221

C_{27}-GROUP

27 IV

$C_{27}H_{22}O_3N_2S$. 5 - Naphthoxy - 2 - ethylmercapto - 6 - keto - 4 - naphthoxymethyl - 1,6 - dihydro - 1,3 - diazine. *Johnson* and *Hill*..... 305

C_{28}-GROUP

28 IV

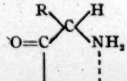
$C_{28}H_{22}O_7N_4S$. Brucine salt of 2-imino-4-ketotetrahydrothiazole-5-acetic acid. *Johnson* and *Ambler*..... 203

C_{30}-GROUP
30 II

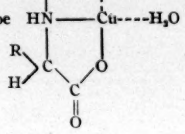
$C_{30}H_{28}O$. ε - Hydroxy - ∂ - methyl - α,γ,ε,ε - tetraphenyl - α - pentene. *Reimer* and *Reynolds*..... 213

ERRATA

p. 287, l. 4, the formula should be $C_8H_8O_8N_2S$.



p. 386, l. 17, the formula should be



p. 390, l. 8, the formula should be